

FY2010 Building Equipment Inventory

	A	B	C	D	E	F
1		Technical Exhibit 5				
2		FY2010				
3		ECC Facilities Operations & Maintenance				
4		Building Equipment Inventory Listing				
5		not all inclusive				
6	Equipment Type	Description	Frequency	ECC (main building)	Annex	
7	A-01	air dryer, refrigerated	S	2	1	
8	A-02	Unitary, Heating and Cooling Unit air barrier	A	5	4	
9	A-03	humidification system	S	2	7	
10	A-04	air compressor - any size or type	S	7	5	
11	A-05	AC Unit Special (ComputerRoomAC Unit)	M	79	30	X
12	A-06	AC Machine Packaged Unit	Q	0	4	
13	A-10	heat pump	A	9	0	
14	A-11	air handling Unit (AHU)	A	21	7	
15	A-13	AC Unit - Ceiling Mounted	M	0	2	
16	B-01	battery charger (stand alone)	Q	12	7	
17	B-02	boiler	A	3	2	
18	B-04	burner	A	3	2	
19	B-07	boiler - internal inspection/hydrostatic test	A	3	2	
20	B-08	boiler - external inspection	A	3	2	
21	C-01	Central Clock System	S	1	1	
22	C-04	Central Mini-Computer HVAC System(BAS)	Q	1	3	
23	C-08	Central Control Panel (BAS)	A	1	3	
24	C-09	cooling tower - maintenance	A	6	3	
25	C-10	cooling tower - cleaning	Q	6	3	
26	D-01	Overhead Power Operated Doors/Gates	S	11	10	
27	D-03	roof drain, downspouts inspection	A	96	44	
28	D-03	roof drain, gutter inspection (L.F.)	A	LECCC 418	Annex Link 284	
29	D-04	Door, Automatic Power Assist Electric	Q	2	5	
30	D-05	doors main entrance - manual	S	9	3	
31	D-06	drains, areaway, driveway, storm	A	13	3	
32	D-07	Sediment Basin	S	0	7	
33	E-01	elevator hydraulic - Maintenance	M	4	2	
34	E-02	elevator hydraulic - Maintenance	Q	4	2	
35	E-03	elevator hydraulic - Maintenance	S	4	2	
36	E-04	elevator hydraulic - Maintenance	A	4	2	
37	E-08	elevator hydraulic - Inspection	S	4	2	
38	E-09	elevator hydraulic - Inspection	A	4	2	
39	E-19	lighting, emergency	Q	1	0	
40	E-20	overcurrent relay	A	146	46	
41	E-21	over and/or under voltage relay	A	14	12	

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42	E-23	Directional Overcurrent Relay	A	30	0	
43	E-24	power factor reverse current relay	A	12	2	
44	E-25	Diffential or ground fault Xfmr Relay	A	50	15	
45	E-25A	bolted pressure contact MV switch	A	21	20	
46	E-26	molded case breaker 400 Amps and Greater	1/3	82	17	
47	E-27	LV Power Air Circuit Breaker Over 100 Amps	3	136	70	
48	E-28	MOTOR STARTER >100 hp	1/3	0	0	
49	E-30	Medium Voltage switchgear per Vertical Sec.	1/3	42	30	
50	E-30A	LV switchboard switchgear per Vertical Sec.	1/3	95	34	
51	E-32	transformer power type - Oil Filled	A	3	3	
52	E-33	HV power type transformer (Dry)	A	15	16	
53	E-34	Disconnects(Isolating SW) above 600V	A	0	0	
54	E-34A	LV disconnect switch -200Amp or Greater	A	24	18	
55	E-35	motor control center per Vertical Sec.	S	41	6	
56	E-36	automatic transfer switch	S	3	2	
57	E-37	busduct low voltage	A	1160'	440'	
58	E-37A	busduct Medium Voltage	A	76'	30'	
59	E-38	Medium Voltage Air/Vacuum circuit breaker	A	36	40	
60	E-41	generator, emergency	Q	10	5	
61	E-41A	generator, emergency, diesel	A	10	5	
62	E-42	generator, emergency	W	10	5	
63	E-42A	generator, emergency, electric	M	10	5	
64	E-42B	generator, emergency, electric	Q	10	5	
65	E-42C	generator, emergency, electric	S	10	5	
66	E-43	lead acid battery (DC Control Voltage)jar/cells	Q	30/120	0	
67	E-43A	lead acid battery Gel Cells - jar/cells	Q	0	40	
68	E-46	battery uninterruptible power system - jar/cells	M	1440/5760	1390	
69	E-46A	UPS BATTERY per Jar/cells	Q	1440/5760	1390	
70	E-46B	UPS BATTERY per jar/cells	S	1440/5760	1390	
71	E-51	motor starter - >100 hp Stand Alone	A	0	0	
72	E-52	Other PROTECTIVE RELAYS	A	18	26	
73	E-56	dimmer system	Q	3	1	
74	E-57	transformer - Dry 30 KVA and greater	1/3	44	14	
75	E-58	power distribution unit(non-electronic UPS)	Q	41	25	X
76	E-60	UPS - Liebert Electronic	Q	0	1	X
77	E-66	UPS Rotary Piller	Q/A	12	6	
78	F-01	Alarm Check Valves & Accessories	M	15	23	
79	F-1A	Alarm Check Valves & Accessories	Q	15	23	
80	F-02	dry pipe Deluge and Preaction valves	W	8	7	
81	F-02A	dry pipe Deluge and Preaction valves	Q	8	7	
82	F-02B	dry pipe Deluge and Preaction valves	A	8	7	

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83	F-03	Post Indicator Valves	A	1	0	
84	F-04	Fire Control Valves - Water based	M	23	25	
85	F-04A	Fire Control Valves - Water based	Q	23	25	
86	F-4B	Fire Control Valves - Water based	A	23	25	
87	F-5	Fire Pump - Deisel Engine Driven	W	0	1	
88	F-5A	Fire Pump - Deisel Engine Driven	M	0	1	
89	F-05B	Fire Pump - Deisel Engine Driven	Q	0	1	
90	F-05C	Fire Pump - Deisel Engine Driven	A	0	1	
91	F-06	fire pump, electric motor driven	M	1	2	
92	F-06a	fire pump, electric motor driven	Q	1	2	
93	F-06B	fire pump, electric motor driven	A	1	2	
94	F-08	fire hose, racked	M	0	0	
95	F-08A	fire hose, racked	A	0	0	
96	F-09	fire dept hose connections - Standpipe Outlets	M	21	10	
97	F-09A	fire dept hose connections - Standpipe Outlets	1/5	21	10	
98	F-10	Fire Dept pumper connection	A	5	7	
99	F-11	fire doors, swinging, stairwells, exitways	Q	22	18	
100	F-12	fire doors, sliding & vertical rolling	Q	0	0	
101	F-13	fire supervisory signal	Q	26	34	
102	F-14	Automatic Fire Detection -Smoke Detectors	A	114	769	
103	F-14A	Automatic Fire Detection - Water Flow alarms	Q	9	9	
104	F-14B	Automatic Fire Detection - Heat Detectors	A	108	24	
105	F-14C	SMOKE CONTROL SYSTEMS-OPS TEST	S	0	0	
106	F-14D	Fire system Strobes	S	85	47	
107	F-15	fire alarm control panel	A	20	6	
108	F-15A	fire alarm control panel, special system	A	8	18	
109	F-16	fire alarm system recorder	W	0	0	
110	F-16A	fire alarm system event printer	Q	2	1	
111	F-16B	fire alarm system Audio Control Panel	A	1	1	
112	F-16C	fire alarm system remote controller	A	0	0	
113	F-16D	fire alarm system remote amplifier	A	10	1	
114	F-17	Manual fire alarm pull station	A	77	39	
115	F-18	Fire and Smoke Dampers	1/2	47	28	
116	F-19	fire hydrant, dry barrel & wet barrel	S	5	7	
117	F-19A	fire hydrant, dry barrel & wet barrel	1/5	5	7	
118	F-20	sprinkler head - Inspection	A	3742	1080	
119	F-22	fire extinguisher stored pressure w/gauge	A	165	112	
120	F-23	fire extinguisher w/no gauge	1/6	31	41	
121	F-24	fire extinguisher	M	163	115	
122	F-25	fire extinguisher hydrostatic testing	1/5	163	113	
123	F-26	fire extinguisher system for hood	M	5	0	

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124	F-26A	fire extinguisher system for hood	S	5	0	
125	F-27	fan, centrifugal	A	50	20	
126	F-29	Filter, Roll type, disposable	M	21	17	
127	F-32	filter, throwaway	Q	10	5	
128	F-35	fluorescent light fixture, relamping	1/3	8490	5086	
129	F-36	FAN COOLING TOWER FAN >24"	A	6	5	
130	F-38	lightining protection	A	749	300	
131	F-39	Cafeteria exhaust hood - duct system	S	5	0	
132	G-01	fuel oil filter/strainer	M	12	6	
133	G-02	Grease trap	M	3	2	
134	G-02B	Oil/Water Separators	Q	2	2	
135	H-03	hot water heater, electric	A	11	6	
136	H-04	heat exchanger	A	4	5	
137	H-15	Hoist, Electric	A	0	1	
138	I-04	fan coil unit	A	18	2	
139	I-05	Fan Coil Unit - VAV ceiling hung w/elec reheat	A	3	92	
140	K-01	PLAY STRUCTURE SURFACING	M	500 S.F.	0	
141	K-02	sliding equipment	Q	7	0	
142	K-03	PLAY STRUCTURE - SWING	M	0	0	
143	K-04	CLIMBING EQUIP.	M	3	0	
144	K-05	spring rocking equipment	M	2	0	
145	K-06	SAND BOX	M	4	0	
146	K-08	PLAY STRUCTURE	A	1	0	
147	K-09	CARRIAGES/BUGGIES	A	3	0	
148	K-101	kitchen equipment Dish machine	Q	3	0	
149	K-101A	kitchen equipment Dish machine	S	3	0	
150	K-102	kitchen equipment Fryer	Q	2	0	
151	K-102A	kitchen equipment fryer	S	2	0	
152	K-103	kitchen equipment Grill	Q	2	0	
153	K-103A	kitchen equipment grill	S	2	0	
154	K-105	kitchen equipment Ice machine	Q	5	1	
155	K-105A	kitchen equipment	S	5	1	
156	K-106	kitchen equipment Kettle	Q	2	0	
157	K-106A	kitchen equipment	S	2	0	
158	K-107	kitchen equipment Oven	Q	4	0	
159	K-107A	kitchen equipment	S	4	0	
160	K-108	Kitchen Equipment Range	Q	3	0	
161	K-108a	Kitchen Equipment Range	S	3	0	
162	K-109	kitchen equipment REFRIGERATOR	Q	2	0	
163	K-109A	kitchen equipment REFRIGERATOR	S	2	0	
164	K-111	garbage disposal	Q	3	0	

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4		Building Equipment Inventory Listing				
165	K-112	Food Heating Well	Q	9	0	
166	K-113	Coffee Urn	Q	1	3	
167	L-02	Loading Dock Leveler/Scissor Lift	Q	3	4	
168	L-03	lighting special	A	2044	173	
169	L-04	lighting, outside	1/5	148	68	
170	L-05	lawn sprinklers	A	0	0	
171	L-08	spot lights	M	10	14	
172	L-10	motorized electric projection screens	S	12	0	
173	M-01	manhole, electric & Telecom/fiber	A	15	14	
174	M-02	manhole, sanitary and storm sewer	Q	12	5	
175	M-03	motor, Preventive Maintenance >1 hp	A	176	59	
176	M-03A	motor, Predictive Maintenance >10 hp	A	149	48	
177	M-04	manhole, water, steam, and fuel oil	S	12	0	
178	M-10A	VFD Motor starters	A	27	2	
179	M-11	motor 3-Ph 600V or 200 hp and above	A	0	0	
180	P-01	Paper Baler	A	0	1	
181	P-04	pump, centrifugal	A	42	18	
182	R-02	roof inspection	S	183,093 S.F.	103,000 S.F.	
183	R-02A	roof inspection, shingle type	S	1	0	
184	R-04	chiller, package unit - Water fountains	A/Q	10	4	
185	R-05	Refrigeration Machine Centrifugal chiller	A	4	3	
186	R-08	Control Panel, Central Refrigeration Unit	A	4	3	
187	R-09	Radiation Heat - Electric & Hot Water	1/2	42	4	
188	R-11	refrigeration controls, central system	A	4	3	
189	R-13	Non-destructive Chiller tube analysis	1/3	4	3	
190	R-15	refrigerant monitor	M	1	1	
191	S-7	Sump Pump	A	0	1	
192	S-8	Strainer, Y-type	A	5	2	
193	S-9	Strainer, Bolted Flange	A	7	12	
194	T-01	expansion tank, chilled water	1/3	8	6	
195	T-02	tank, water/air	A	1	0	
196	T-03	tank, fuel oil storage	1/4	10	6	
197	T-04	underground storage tank	M	3	1	
198	T-10	Radio alarms	Q	1	1	
199	V-02	valve, safety relief	M	24	10	
200	V-03	Valves, regulating	A	40	5	
201	V-05	Valve Manually operated	A	5	50	
202	V-06	Valve motor-operated	A	7	0	
203	V-07	Valve, Hydraulic/Pneumatic/Electric HP boiler operations	A	120	70	
204	V-07-A	Trap Primers	A	43	18	
205	V-8	Check Valve, Critical	A	15	13	

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4		Building Equipment Inventory Listing				
206	V-09	backflow preventer	A	9	9	
207	W-02	emergency wash	W	6	2	
208	W-03	water softener	S	5	4	
209	W-04A	Filter, water replaceable cartridge	Q	2	6	
210	W-08	water treatment, for cooling towers	M	3	2	
211	W-09	Water treatment for heating system	M	2	1	
212	W-10	Water Leak Detection System	S	10	30	
213		Listed below is other equipment to be maintained, inspected, and repaired in accordance with Manufacturer's criteria. Contractor will be responsible to develop a guide card based on the MFG requirements for all equipment listed below and/or for which GSA/IRS doesn't have a guide card established.				
214		Security Fence (All Campus Fencing)		1	1	
215		Main Security Gates		3	2	
216		Reach in Refridgerator		11	5	
217		Central Paper Shredder		0	1	
218		Paper & Diskette Desintegrator		0	1	
219		Security Controller (Field Panels - ISCs) (TBD)		27	9	
220		glass break sensor (TBD)		93	46	
221		SECURITY CAMERAS & power supplies (TBD)		45	21	
222		SECURITY Video monitoring & recording, VCR DVD (TBD)		3	0	
223		Security Video Rack (TBD)		2	1	
224		Motion Detector (TBD)		103	38	
225		Security door system-Each includes Maglock,BMS,CardReader,Rex (TBD)		101	25	
226		GCC for Fire system		3	1	
227		Building System Printer (TBD)		8	3	
228		Aiphone Intercom system talking locations (TBD)		10	7	
229		Security Intrusion Detection - Fiber Fence monitoring zones (TBD)		8	3	
230		Stand alone door system @ ChildCare w/security magnetic lock		1	0	
231		Additional stand alone Proxcard readers (TBD)		14	4	
232		Delta Hydraulic Barriers W/parking arm gates,traffic lights and loop detectors (TBD)		3	0	
233		Fuel Oil Leak Detection		2	1	
234		ADP raised floor inspection		100,000 S.F.	47,000 S.F.	
235		x-ray machine		3	2	
236		Reverse osmosis units		0	2	
237		heat trace tape (cooling towers)		1	1	
238		tube and shell heat exchangers		2	1	
239		glycol loop heat system for Annex sidewalk		0	3	
240		battery run-off containment pits		3	0	
241		ADP Grounding Grid in S.F.		96,000 S.F.	46,000 S. F.	
242		Roof Scaffold anchors		60	0	

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4		Building Equipment Inventory Listing				
243		Exterior Grounding Grid.		3	3	
244	*	RF Distribution system	A	1		
245	*	Lithonia Lighting System	Q	1	1	
246	*	Simplex Fire Alarm System	Q	1	1	
247	*	MCC Audio-Visual System (MCC Auditorium)	A	1	0	
248	*	Piller Insite RUPS Monitoring System	Q	1	1	
249	*	Johnson Controls BAS	Q	0	1	
250	*	Siemens BAS	Q	1	0	
251	*	Computerized Maintenance Management System (CMMS)	W	1	0	
252		Physical Security System ** (TBD)	W	1	1	X
253	*	MCC RUPS System (Piller Modules)	A	12		
254	*	Annex RUPS System (Piller Modules)	A		6	
255	*	Fire Alarm System (FCI)	S	0	1	X
256	*	Liebert and Trane automated systems (HVAC)	S	0	2	X
257		* These computer automated systems include the front end system and remote panels and all related devices and shall have all operating software and database histories backed as mentioned under frequencies above. A copy of all backups shall be provided to the COTR within 7 calendar days. In addition, these systems shall be fully maintained and repaired so that they shall function in accordance with the MFG recommendations. Any required system hardware and or software upgrades costing more than \$3,000 will be handled as an IDIQ task order.				
258						
259		Q= Quarterly				
260		A= Annually				
261		M= Monthly				
262		S= Semi-Annually				
263		W=Weekly				
264		1/3= One time every 3 years				
265		Q/A= Both Quarterly and Annually				
266		** (TBD)= To be determined. See Paragraph 3.5.6 of the PWS.				